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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/692,211	10/20/2000	Akihiko Ishibashi	0819-442	6705	
20277 75	590 07/22/2004		EXAM	INER	
	T WILL & EMERY LL	MULPURI, SAVITRI			
600 13TH STR WASHINGTO	N, DC 20005-3096		ART UNIT	PAPER NUMBER	
			2812		
			DATE MAILED: 07/22/200-	DATE MAILED: 07/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
09/692,211 ISHIBASHI ET AL								
Office Action Summ	ary	Examiner	Art Unit					
		Savitri Mulpuri	2812					
	ommunication app	ears on the cover sheet with the	correspondence address	-				
Period for Reply A SHORTENED STATUTORY PE	RIOD FOR REPLY	IS SET TO EXPIRE 3 MC	NTH(S) FROM					
THE MAILING DATE OF THIS CO - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date o - If the period for reply specified above is less the lf NO period for reply is specified above, the mailing to reply within the set or extended perion Any reply received by the Office later than three earned patent term adjustment. See 37 CFR	provisions of 37 CFR 1.13 f this communication. an thirty (30) days, a reply aximum statutory period wid for reply will, by statute, e months after the mailing	within the statutory minimum of thirty (30) da ill apply and will expire SIX (6) MONTHS froi cause the application to become ABANDON	ays will be considered timely. In the mailing date of this communicat ED (35 U.S.C. § 133).	tion.				
Status								
1) Responsive to communication	on(s) filed on 07 Jul	ne 2004.						
2a)⊠ This action is FINAL .		action is non-final.						
3) Since this application is in co	ondition for allowan	ce except for formal matters, p	osecution as to the merits	is				
closed in accordance with th	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>4-8,10,11 and 13</u> is	/are pending in the	application.						
4a) Of the above claim(s) 4-7	<i>and 13</i> is/are with	drawn from consideration.						
5) Claim(s) is/are allowed	d.							
6)⊠ Claim(s) <u>8,10,11</u> is/are rejec	ted.							
7) Claim(s) is/are object	ed to.	•						
8) Claim(s) are subject t	o restriction and/or	election requirement.	÷					
Application Papers								
9)☐ The specification is objected	to by the Examiner	•						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s)	including the correcti	on is required if the drawing(s) is o	bjected to. See 37 CFR 1.12	1(d).				
11)☐ The oath or declaration is ob	ected to by the Exa	aminer. Note the attached Offic	e Action or form PTO-152.	•				
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of	a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ No	ne of:							
1. Certified copies of the	priority documents	have been received.						
2. Certified copies of the	priority documents	have been received in Applica	tion No					
3. Copies of the certified	copies of the priori	ity documents have been receiv	ed in this National Stage					
application from the Ir	ternational Bureau	(PCT Rule 17.2(a)).						
* See the attached detailed Offi	ce action for a list o	of the certified copies not receive	ed.					
Attachment(s)		🗖						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing 	Review (PTO-948)	4) Ll Interview Summa Paper No(s)/Mail l						
Notice of Dransperson's Patent Drawing Information Disclosure Statement(s) (PTO Paper No(s)/Mail Date			Patent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

Claims 8,10,11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beaumont et al (Conference article presented on July 1999).

Rejection is maintained same as in previous communication mailed on 3/6/2004.

Response to Arguments

Applicant's arguments filed 6/4/04 have been fully considered but they are not persuasive. Applicant argues that Beaumont reference does not support GaN triangular stripes as seeds by selective epitaxy at low temperature by OMVPE (low pressure technique) and then increasing the temperature by HVPE (high pressure technique) to form continuous layer through coalescence to reduce defect density. It is agreed that conference article by Beaumont is in abstract version only mentioned two step process starting with low temperature for growing seeds (crystals) followed by high temperature for growing epitaxial layer, but not pressure. In previous office action, publication WO99/20816 or FR 2769924), published on 4/29/04 was cited for the support of subject matter i.e., first island or stripes are grown in OMVPE and subsequent coalesced layer is grown by HVPE, wherein HVPE technique use higher pressure than the pressure used in OMVPE (see PCT publication page 3, 4 th paragraph for temperature change; page 6, first paragraph for pressure change).

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THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Savitri Mulpuri whose telephone number is 571-272-1677. The examiner can normally be reached on Mon-Fri from 8 to 4.30. p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling, can be reached on 571-272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public

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free).

Savitri Mulpuri Primary Examiner Art Unit 2812

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